

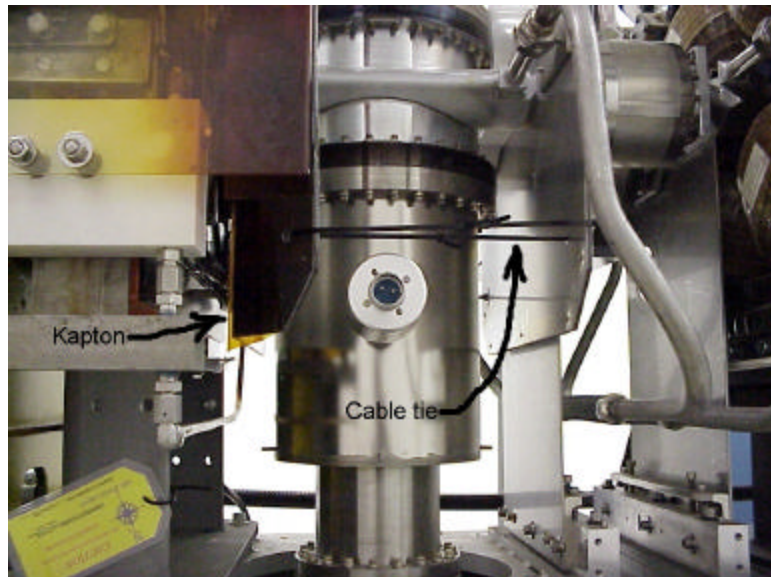
Downtime Report

This is the Down time report for the ground fault on the 6BV3 corrector magnet on October 2, 2003.

The problem started on 10/2/02, 21:30 when S6:7:R1 tripped on Water/Ground fault during conditioning. ES group began investigated the problem. The ME group became involved in the investigation on 10/3/02 9:55. The problem was fixed and the storage ring was brought back to conditioning on 10/3/02 14:01.

The reason for the incident was the lead shield, surrounding the wedge absorber, was touching the corrector coil conductor. The insulation wore through and created an electrical short.

The problem was solved, on 6BV3 corrector magnet, by adding a threaded rod to the assembly to pull the shield away from the conductor. Inspection of the other BV3 corrector magnets in the storage ring revealed similar problems with the shielding touching the conductor coil. This meant that all BV3 corrector magnets were at risk to the same type of problem as on 6BV3 corrector magnet. To address this, Kapton tape was inserted between the lead shielding and the corrector coil conductor to electrically insulate from shorting. A cable tie was used to pull the shield away from the conductor (see figure). This was done to the remaining corrector magnets in the storage ring. This is only a temporary fix and a permanent fix will be done at the December shutdown.



The procedures used to work on this system are Lockout/Tagout and ACIS Controlled Access Procedure.

No spares or system monitoring is needed for this issue.

Threaded rod will be added to all shielding at the BV3 corrector magnets during the December shutdown to prevent future occurrences of this problem.